

$$\frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}, \quad \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & i \\ 0 & -i \end{pmatrix}, \quad \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & -i \\ 0 & i \end{pmatrix}, \quad \frac{1}{\sqrt{2}} \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$$

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